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(54) Title: CATALYST COMPOSITION AND USE THEREOF IN ETHANE OXIDATION

(57) Abstract: A catalyst composition and its use for the oxidation of ethane to ethylene and acetic acid which comprises (i) a support, and (ii) in combination with oxygen, the elements molybdenum, vanadium and niobium, optionally tungsten and a component Z, which is one or more metals of Group 14 of the Periodic Table of Elements; a, b, c, d and e represent the gram atom ratios of the elements Mo, W, Z, V and Nb respectively, such that $0 < a \leq 1$; $0 \leq b < 1$ and $a + b = 1$; $0.05 < c \leq 2$; $0 < d \leq 2$; and $0 < e \leq 1$.



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